BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements to Roads and Drains at NTI layout, IECHS Layout, Defence Layout and Surrounding areas in Ward No. 09 (Vidyaranyapura).

Estimated Cost : Rs. 60.00 Lakhs

Job Code: 009-20-000074

Head of Account : P-0541 Emergency Reserve Fund

Name of Agency: Sri. Aswathnarayana, # 38, Chanappa layout, Sharadhambhanagara, Jalahalli Village, Bangalore - 560013

Work order No: BBMP/EE/BTP/WO/203/2020-21 Dated: 04.03.2021.

	Measurements Recarded on : 23/06/21									
Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
1	**Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications								Cum	
	Qty as per Premeasurement vide E-MB Page No. 01 to 03 is =							**413.75**	**207.00**	**85646.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3)								Sqm	
	Qty as per Premeasurement vide E-MB Page No. 04 is =							**1282.50**	**111.00**	**142358.00**
	Measurements Recarded on :									
3	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete								Sqm	
	NTI Layout 5th Cross									
	From 11th Main E/S	1.00	8.20			1.35		11.07		
		1.00	9.50			1.35		12.83		
		1.00	5.00			1.35		6.75		
		1.00	4.30			1.35		5.81		
		1.00	6.00			1.35		8.10		
	From 11th Main W/S									
		1.00	0.60			1.35		0.81		
		1.00	5.00			1.35		6.75		
		1.00	1.80			1.35		2.43		
		1.00	6.10			1.35		8.24		
		1.00	3.05			1.35		4.12		
	6th Cross E/S									
		1.00	3.00			1.35		4.05		
		1.00	5.00			1.35		6.75		
		1.00	4.30			1.35		5.81		
		1.00	3.00			1.35		4.05		
	6th Cross W/S									
		1.00	5.30			1.35		7.16		
		1.00	6.10			1.35		8.24		
		1.00	6.40			1.35		8.64		

111.58

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-

Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
		1.00	9.20			1.35		12.42	111.58	
	10th Main NTI Layout									
	N/S	1.00	8.90			1.35		12.02		
		1.00	9.10			1.35		12.29		
		1.00	5.00			1.35		6.75		
		1.00	6.00			1.35		8.10		
		1.00	0.60			1.35		0.81		
		1.00	4.80			1.35		6.48		
		1.00	6.20			1.35		8.37		
	S/S									
		1.00	1.80			1.35		2.43		
		1.00	4.50			1.35		6.08		
	9th Main NTI Layout from 5th Cross to 1st Cross									
	N/S	1.00	3.30			1.35		4.46		
		1.00	5.50			1.35		7.43		
		1.00	3.00			1.35		4.05		
		1.00	3.50			1.35		4.73		
	S/S									
		1.00	10.20			1.35		13.77		
		1.00	12.50			1.35		16.88		
		1.00	8.70			1.35		11.75		
		1.00	3.80			1.35		5.13		
	1st Cross NTI Layout									
	E/S	1.00	10.50			1.35		14.18		
		1.00	6.50			1.35		8.78		
		1.00	11.50			1.35		15.53		
		1.00	11.50			1.35		15.53		
		1.00	10.30			1.35		13.91		
	W/S									
		1.00	6.90			1.35		9.32		
		1.00	8.50			1.35		11.48		
		1.00	16.30			1.35		22.01		
		1.00	18.20			1.35		24.57		
								390.76		
	Total							384.75	742.00	285485.00

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

Sl No	Description of work	No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
	Measurements Recarded on : 25-06-2021									
4	Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification								Cum	
	Qty as per Premeasurement vide E-MB Page No. 05 to 08 is =							85.50	5421.00	463496.00
5	Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications								Sqm	
	NTI Layout									
	1sr Cross Road									
	From 10th Main	2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	14.00				0.40	11.20		
	2nd Cross									
	From 10th Main	2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	9.30				0.40	7.44		
		2.00	15.00				0.40	12.00		
		2.00	17.00				0.40	13.60		
	10th Main Road									
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	13.80				0.40	11.04		
	From 5th Cross to 4th Coss									
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		

Assistant Executive Engineer
Vijayanagar Sub Division
BBMP, Bangalore - 97

219.28

Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
		2.00	15.00				0.40	12.00		
		2.00	11.00				0.40	8.80		
	6th Cross									
	From 10th Main	2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
	Main Road	2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
	9th Main Road									
	From 5th Cross									
	N/S	2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
	S/S									
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	15.00				0.40	12.00		
		2.00	7.00				0.40	5.60		
		2.00	6.00				0.40	4.80		
						Sub Total		760.88		
								760.00	1190.00	904400.00

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl No	Description of work		Mesurement					Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
	Measurements Recarded on :	28-06-2021								
6	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.								Cum	
	Coping Concrete									
	NTI Layout 5th Cross									
	From 11th Main E/S	2.00	8.20			0.20	0.10	0.33		
		2.00	9.50			0.20	0.10	0.38		
		2.00	18.60			0.20	0.10	0.74		
		2.00	4.30			0.20	0.10	0.17		
		2.00	5.80			0.20	0.10	0.23		
		2.00	9.20			0.20	0.10	0.37		
		2.00	1.20			0.20	0.10	0.05		
		2.00	8.50			0.20	0.10	0.34		
		2.00	6.00			0.20	0.10	0.24		
	From 11th Main W/S									
		2.00	0.60			0.20	0.10	0.02		
		2.00	26.20			0.20	0.10	1.05		
		2.00	9.40			0.20	0.10	0.38		
		2.00	7.30			0.20	0.10	0.29		
		2.00	5.40			0.20	0.10	0.22		
		2.00	9.00			0.20	0.10	0.36		
		2.00	1.80			0.20	0.10	0.07		
		2.00	6.10			0.20	0.10	0.24		
		2.00	3.05			0.20	0.10	0.12		
	6th Cross E/S									
		2.00	12.30			0.20	0.10	0.49		
		2.00	10.60			0.20	0.10	0.42		
		2.00	5.90			0.20	0.10	0.24		
		2.00	3.10			0.20	0.10	0.12		
		2.00	6.00			0.20	0.10	0.24		
		2.00	4.30			0.20	0.10	0.17		
		2.00	18.30			0.20	0.10	0.73		
	6th Cross W/S									
		2.00	5.30			0.20	0.10	0.21		
		2.00	6.10			0.20	0.10	0.24		
		2.00	3.00			0.20	0.10	0.12		
		2.00	1.50			0.20	0.10	0.06		
		2.00	6.20			0.20	0.10	0.25		
		2.00	9.00			0.20	0.10	0.36		
		2.00	6.40			0.20	0.10	0.26		
		2.00	9.20			0.20	0.10	0.37		
	10th Main NTI Layout									
	N/S	2.00	8.90			0.20	0.10	0.36		
		2.00	9.10			0.20	0.10	0.36		
		2.00	12.90			0.20	0.10	0.52		

10.61

Assistant Executive Engineer
Vijayanagar Sub Division
BBMP, Bangalore-97
28/6/21

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
		2.00	10.70			0.20	0.10	0.43	10.61	
		2.00	0.60			0.20	0.10	0.02		
		2.00	4.80			0.20	0.10	0.19		
		2.00	6.20			0.20	0.10	0.25		
	S/S									
		2.00	1.80			0.20	0.10	0.07		
		2.00	15.80			0.20	0.10	0.63		
		2.00	0.75			0.20	0.10	0.03		
		2.00	10.00			0.20	0.10	0.40		
		2.00	15.00			0.20	0.10	0.60		
		2.00	4.20			0.20	0.10	0.17		
		2.00	18.00			0.20	0.10	0.72		
	9th Main NTI Layout from 5th Cross to 1st Cross									
	N/S	2.00	27.10			0.20	0.10	1.08		
		2.00	15.30			0.20	0.10	0.61		
		2.00	30.00			0.20	0.10	1.20		
		2.00	3.70			0.20	0.10	0.15		
		2.00	3.00			0.20	0.10	0.12		
		2.00	19.40			0.20	0.10	0.78		
	S/S									
		2.00	22.10			0.20	0.10	0.88		
		2.00	12.50			0.20	0.10	0.50		
		2.00	8.70			0.20	0.10	0.35		
		2.00	21.60			0.20	0.10	0.86		
		2.00	1.20			0.20	0.10	0.05		
		2.00	4.30			0.20	0.10	0.17		
		2.00	9.30			0.20	0.10	0.37		
		2.00	5.70			0.20	0.10	0.23		
		2.00	6.90			0.20	0.10	0.28		
		2.00	3.80			0.20	0.10	0.15		
	1st Cross NTI Layout									
	E/S	2.00	30.00			0.20	0.10	1.20		
		2.00	30.00			0.20	0.10	1.20		
		2.00	27.30			0.20	0.10	1.09		
		2.00	7.80			0.20	0.10	0.31		
		2.00	14.50			0.20	0.10	0.58		
		2.00	18.70			0.20	0.10	0.75		
		2.00	3.80			0.20	0.10	0.15		
		2.00	23.50			0.20	0.10	0.94		
		2.00	10.30			0.20	0.10	0.41		
	W/S									
		2.00	6.90			0.20	0.10	0.28		
		2.00	1.50			0.20	0.10	0.06		
		2.00	16.30			0.20	0.10	0.65		
		2.00	18.20			0.20	0.10	0.73		
		2.00	7.80			0.20	0.10	0.31	20.72	

Assistant Executive Engineer
Vijayaranyapura Sub-Division
BBMP, Bangalore

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
		2.00	8.20			0.20	0.10	0.33	30.78	
		2.00	8.60			0.20	0.10	0.34		
		2.00	30.00			0.20	0.10	1.20		
		2.00	1.20			0.20	0.10	0.05		
	2nd Cross NTI Layout									
	E/S	2.00	9.00			0.20	0.10	0.36		
		2.00	8.40			0.20	0.10	0.34		
		2.00	20.00			0.20	0.10	0.80		
	W/S									
		2.00	5.90			0.20	0.10	0.24		
		2.00	7.70			0.20	0.10	0.31		
		2.00	5.30			0.20	0.10	0.21		
		2.00	7.40			0.20	0.10	0.30		
		2.00	7.80			0.20	0.10	0.31		
		2.00	1.20			0.20	0.10	0.05		
		2.00	5.00			0.20	0.10	0.20		
	Vent Concrete									
	NTI Layout 5th Cross									
	From 11th Main E/S	1.00	8.20			0.45	0.10	0.37		
		1.00	9.50			0.45	0.10	0.43		
		1.00	18.60			0.45	0.10	0.84		
		1.00	4.30			0.45	0.10	0.19		
		1.00	5.80			0.45	0.10	0.26		
		1.00	9.20			0.45	0.10	0.41		
		1.00	1.20			0.45	0.10	0.05		
								38.68		
								38.00	5599.00	212762.00

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore
28/8/17

Sl No	Description	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
	Measurements Recarded on :	28-06-2021								
7	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work, curing, including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift, transportation etc ,copmplete. (Data Rate)								Sqm	
	NTI Layout 5th Cross									
	From 11th Main E/S	1.00	8.20			0.75		6.15		
		1.00	9.50			0.75		7.13		
		1.00	18.60			0.75		13.95		
		1.00	4.30			0.75		3.23		
		1.00	5.80			0.75		4.35		
		1.00	9.20			0.75		6.90		
		1.00	1.20			0.75		0.90		
		1.00	8.50			0.75		6.38		
		1.00	6.00			0.75		4.50		
	From 11th Main W/S									
		1.00	0.60			0.75		0.45		
		1.00	26.20			0.75		19.65		
		1.00	9.40			0.75		7.05		
		1.00	7.30							
		1.00	5.40			0.75		4.05		
		1.00	9.00			0.75		6.75		
		1.00	1.80							
		1.00	6.10			0.75		4.58		
		1.00	3.05			0.75		2.29		
	6th Cross E/S									
		1.00	12.30			0.75		9.23		
		1.00	10.60			0.75		7.95		
		1.00	5.90			0.75		4.43		
			3.10							
		1.00	6.00			0.75		4.50		
		1.00	4.30			0.75		3.23		
		1.00	18.30			0.75		13.73		
	6th Cross W/S									
		1.00	5.30			0.75		3.98		
		1.00	6.10			0.75		4.58		
		1.00	3.00			0.75		2.25		
		1.00	1.50			0.75		1.13		
		1.00	6.20			0.75		4.65		
		1.00	9.00			0.75		6.75		
		1.00	6.40			0.75		4.80		
		1.00	9.20			0.75		6.90		
	10th Main NTI Layout									
	N/S	1.00	8.90			0.75		6.68		
		1.00	9.10			0.75		6.83		
		1.00	12.90			0.75		9.68		
		1.00	10.70			0.75		8.03		
		1.00	0.60			0.75		0.45		

E.E. (BTP, DIV)

Assistant Executive Engineer
Jayamahal Sub Division
BBMP, Bangalore - 97

28/6/21

208.01

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
		1.00	4.80			0.75		3.60	208.01	
		1.00	6.20			0.75		4.65		
	S/S									
		1.00	1.80			0.75		1.35		
		1.00	15.80			0.75		11.85		
		1.00	0.75			0.75		0.56		
		1.00	10.00			0.75		7.50		
		1.00	15.00			0.75		11.25		
		1.00	4.20			0.75		3.15		
		1.00	18.00			0.75		13.50		
	9th Main NTI Layout from 5th Cross to 1st Cross									
	N/S	1.00	27.10			0.75		20.33		
		1.00	15.30			0.75		11.48		
		1.00	30.00			0.75		22.50		
		1.00	3.70			0.75		2.78		
		1.00	3.00			0.75		2.25		
		1.00	19.40			0.75		14.55		
	S/S									
		1.00	22.10			0.75		16.58		
		1.00	12.50			0.75		9.38		
		1.00	8.70			0.75		6.53		
		1.00	21.60			0.75		16.20		
		1.00	1.20			0.75		0.90		
		1.00	4.30			0.75		3.23		
		1.00	9.30			0.75		6.98		
		1.00	5.70			0.75		4.28		
		1.00	6.90			0.75		5.18		
		1.00	3.80			0.75		2.85		
	1st Cross NTI Layout									
	E/S	1.00	30.00			0.75		22.50		
		1.00	30.00			0.75		22.50		
		1.00	27.30			0.75		20.48		
		1.00	7.80			0.75		5.85		
		1.00	14.50			0.75		10.88		
		1.00	18.70			0.75		14.03		
		1.00	3.80			0.75		2.85		
		1.00	23.50			0.75		17.63		
		1.00	10.30			0.75		7.73		
	W/S									
		1.00	6.90			0.75		5.18		
		1.00	1.50			0.75		1.13		
		1.00	16.30			0.75		12.23		
		1.00	18.20			0.75		13.65		
		1.00	7.80			0.75		5.85		
		1.00	8.20			0.75		6.15		
		1.00	8.60			0.75		6.45	586.43	

C&F C

E.E. (Wtr. Div)

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
		1.00	30.00			0.75		22.50	586.43	
		1.00	1.20			0.75		0.90		
	2nd Cross NTI Layout									
	E/S	1.00	9.00			0.75		6.75		
		1.00	8.40			0.75		6.30		
		1.00	20.00			0.75		15.00		
	W/S									
		1.00	5.90			0.75		4.43		
		1.00	7.70			0.75		5.78		
		1.00	5.30			0.75		3.98		
		1.00	7.40			0.75		5.55		
		1.00	7.80			0.75		5.85		
		1.00	1.20			0.75		0.90		
		1.00	5.00			0.75		3.75		
								668.10		
	Total							**648.00**	**2337.00**	**1514376.00**

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP Bangalore-9

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

15	**Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead		Cum	
	Qty as per Premeasurement vide E-MB Page No. 09 is =	**135.88**	**56.00**	**7609.00**
19	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications		Cum	
	Qty as per Premeasurement vide E-MB Page No. 10 is =	**195.62**	**2001.00**	**391436.00**
10	Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of		Sqm	
	Qty as per Premeasurement vide E-MB Page No. 11 is =	**782.50**	**29.00**	**22693.00**
11	Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen		Cum	
	Qty as per Premeasurement vide E-MB Page No. 12 is =	**39.12**	**7000.00**	**273840.00**
12	Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.		Sqm	
	Qty as per Premeasurement vide E-MB Page No. 13 to 14 is =	**3130.00**	**5.70**	**17841.00**

Sl No	Description of work	Mesureme No.	L	B1	B2	Qty	Rate / Unit	Amount
13	Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on t … topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (… of road surface) including cost of all materials, labour, HOM complete as per specifications						Sqm	
			Qty Vide Item no. 21			3130.00		
	Total					**3130.00**	**13.00**	**40690.00**
	Measurements Recarded on : 28.06.2021							
14	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive).						Cum	
	NTI Layout							
	1sr Cross Road							
	From 10th Main	1.00	15.00	7.00	5.20	6.10	0.04	3.66
		1.00	15.00	5.20	5.00	5.10	0.04	3.06
		1.00	15.00	5.00	5.00	5.00	0.04	3.00
		1.00	15.00	5.00	5.20	5.10	0.04	3.06
		1.00	15.00	5.20	4.70	4.95	0.04	2.97
		1.00	15.00	4.70	5.00	4.85	0.04	2.91
		1.00	15.00	5.00	4.90	4.95	0.04	2.97
		1.00	15.00	4.90	4.10	4.50	0.04	2.70
		1.00	15.00	4.10	4.70	4.40	0.04	2.64
		1.00	15.00	4.70	5.30	5.00	0.04	3.00
		1.00	15.00	5.30	5.20	5.25	0.04	3.15
		1.00	15.00	5.20	4.90	5.05	0.04	3.03
		1.00	15.00	4.90	5.90	5.40	0.04	3.24
		1.00	14.00	5.90	6.50	6.20	0.04	3.47
	7th Cross BEL 4th Block							
	From Ganesha Temple Road	1.00	15.00	6.50	5.50	6.00	0.04	3.60
		1.00	15.00	5.50	5.10	5.30	0.04	3.18
		1.00	15.00	5.10	5.60	5.35	0.04	3.21
		1.00	15.00	5.60	5.80	5.70	0.04	3.42
		1.00	15.00	5.80	5.70	5.75	0.04	3.45
		1.00	15.00	5.70	5.70	5.70	0.04	3.42
		1.00	15.00	5.70	5.30	5.50	0.04	3.30
		1.00	15.00	5.30	5.70	5.50	0.04	3.30
		1.00	3.00	5.70	6.00	5.85	0.04	0.70
	2nd Cross							
	From 10th Main	1.00	15.00	5.50	4.60	5.05	0.04	3.03
		1.00	15.00	4.60	4.60	4.60	0.04	2.76
		1.00	15.00	4.60	4.20	4.40	0.04	2.64
		1.00	15.00	4.20	4.80	4.50	0.04	2.70
		1.00	15.00	4.80	4.90	4.85	0.04	2.91
		1.00	15.00	4.90	6.50	5.70	0.04	3.42
		1.00	15.00	6.50	5.30	5.90	0.04	3.54
		1.00	9.30	5.30	5.80	5.55	0.04	2.06

93.5

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Pa

C&F C. Sig. 8/07 B.E. (CIVIL, DCE)

Sl No	Description of Work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
	2nd Cross									
	From Thir	1.00	15.00	5.60	5.20	5.40	0.04	3.24	93.5	
		1.00	15.00	5.20	4.70	4.95	0.04	2.97		
		1.00	15.00	4.70	4.70	4.70	0.04	2.82		
		1.00	15.00	4.70	4.70	4.70	0.04	2.82		
		1.00	15.00	4.70	4.60	4.65	0.04	2.79		
		1.00	15.00	4.60	5.30	4.95	0.04	2.97		
		1.00	15.00	5.30	5.00	5.15	0.04	3.09		
		1.00	7.50	5.00	4.70	4.85	0.04	1.46		
	4th Cross Sapthagiri Layout									
	From Thindlu Main Road	1.00	15.00	5.20	5.00	5.10	0.04	3.06		
		1.00	15.00	5.00	4.40	4.70	0.04	2.82		
		1.00	15.00	4.40	4.60	4.50	0.04	2.70		
		1.00	15.00	4.60	5.00	4.80	0.04	2.88		
	Deduction for Chambers	9.00	3.14			0.75	0.04	-0.85		
								126.28		
	Total							**125.20**	**8000.00**	**1001600.00**

Assistant Engineer
Ward No. 09

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub Division
Bruhath Bengaluru Mahanagara Palike

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl No	Description of work		Mesurement					Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
	Measurements Recarded on :	28-06-2021								
15	**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.								Sqm	
	NTI Layout									
	1sr Cross Road									
	From 10th Main	2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	14.00			0.10		2.80		
	7th Cross BEL 4th Block									
	From Ganesha Temple Road	2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	3.00			0.10		0.60		
	2nd Cross									
	From 10th Main	2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	9.30			0.10		1.86		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

125.26

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
		2.00	15.00			0.10		3.00	125.26	
		2.00	15.00			0.10		3.00		
		2.00	15.00			0.10		3.00		
								134.26		
	Total							134.20	454.00	60927.0

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

	Measurements Recarded on :	30-06-2021								
16	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge.								Nos	
	Kerb Stone									
	9th Main HMT layout 5th Block	1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
		1.00	15.00					15.00		
						Sub Total		**150.00**		
	Total length							150.00		
	No of Kerb Stones		Total Length/0.45					333		
								333		
	Total							**333**	432.00	143856.0

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl No	Description of work	No.	Mesurement L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
	Measurements Recarded on :	30-06-2021								
17	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.								Sqm	
	Kerb Stone Priming Coat									
	9th Main HMT layout 5th Block	1.00	15.00				0.35	5.25		
		1.00	15.00				0.35	5.25		
		1.00	15.00				0.35	5.25		
		1.00	15.00				0.35	5.25		
		1.00	15.00				0.35	5.25		
							0.35	0.00		
		1.00	15.00				0.35	5.25		
		1.00	15.00				0.35	5.25		
		1.00	15.00				0.35	5.25		
		1.00	15.00				0.35	5.25		
		1.00	15.00				0.35	5.25		
								52.50		
	Total							52.50	84.00	4410.00
									Grand Total	5573425.00

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidayranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub Division
Bruhath Bengaluru Mahanagara Palike
Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97